Notice of Allowability	Application No.	Applicant(s)	
	09/904,962	ANANTH, VISWANATH	
	Examiner	Art Unit	
	Jung W. Kim	2132	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to 3/27/06.			
2. The allowed claim(s) is/are <u>1-17 and 21</u> .			
3.			
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dai 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), te ment/Comment	



Application/Control Number: 09/904,962

Art Unit: 2132

## **DETAILED ACTION**

## Response to Amendment

1. The amendment to claims 12-17 overcome the prior art rejections to these claims.

## Allowable Subject Matter

- 2. Claims 1-17 and 21 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Applicant claims a state-varying hybrid stream cipher wherein incoming plain text is divided into variable-sized blocks based on changes of the internal state caused by variations in the incoming plain text, and the plaintext is converted into cipher text. The closest prior art, Barbir USPN 6,122,379 and Weiss 5,479,512 discloses a similar invention; both Barbir and Weiss teach a variation on concryption techniques (Barbir discloses a simultaneous compression and encryption technique that uses RLE compression and a variable step to randomize the sampling interval based on the value of a stream cipher, and Weiss discloses a compression technique using RLE then an encryption method applied to the incoming plaintext). However, in both Barbir and Weiss, the division of the plaintext into variable-sized blocks is a step of the compression part of the algorithm (RLE substitutes blocks of symbols with other blocks of symbols); in the instant application, the division into variable sized blocks are incorporated directly into the cipher to produce the ciphertext. Hence, claims 1-17 and 21 are allowed.

Art Unit: 2132

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Communications Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung W. Kim whose telephone number is 571-272-3804. The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 7, 2006

Jung W Kim Examiner Art Unit 2132

GILBERTO BARRON DE-SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100